

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917) August 1985

SECTION I

MANUFACTURER'S NAME Koppers Company, Inc.		EMERGENCY TELEPHONE NO. 412-227-2000
ADDRESS (Number, Street, City, State, and ZIP Code) Pittsburgh, PA 15219		
CHEMICAL NAME AND SYNONYMS Alkyd		TRADE NAME AND SYNONYMS Zinc Chromate Primer P-441P
CHEMICAL FAMILY Alkyd	FORMULA TT-P-1757 Comp L Yellow or 34151 Green	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS Zinc Chromate	25.6	0.05mg/M ³	BASE METAL		
CATALYST			ALLOYS		
VEHICLE Alkyd		N/A	METALLIC COATINGS		
SOLVENTS See Below ²			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES			By wt. %	TLV (Units)
Iso-Butyl Alcohol			6.0	50ppm
Iso-Butyl Acetate			3.0	150ppm
Toluene			19.0	100ppm
VM&P Naphtha			16.0	300ppm
Heptane			4.3	400ppm
Methylene Chloride			18.0	200ppm
Isobutane-Propane			25.0	800ppm

SECTION III - PHYSICAL DATA

		LBS/GAL
BOILING POINT (°F.)		9.7
VAPOR PRESSURE (mm Hg.)		66%
VAPOR DENSITY (AIR = 1)	Heavier	EVAPORATING RATE (<u>II-Bu-Ac</u> = 1)
SOLUBILITY IN WATER	Negligible	Faster
APPEARANCE AND ODOR Yellow or green viscous liquid with typical solvent odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) 50°F T.O.C.	FLAMMABLE LIMITS	Let	Uel
EXTINGUISHING MEDIA Foam, dry chemical, water spray, fog or CO ₂			
SPECIAL FIRE FIGHTING PROCEDURES Use air supplied equipment for enclosed areas. Cool exposed containers with water			
UNUSUAL FIRE AND EXPLOSION HAZARDS Keep away from heat, sparks and flame			

(Continued on reverse side)

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

0.05mg/M3 from Zinc Chromate in the air and 50 ppm from solvent vapor.

EFFECTS OF OVEREXPOSURE

Irritation to eyes, nose and throat near or above 50 from vapors. Higher concentrations cause drowsiness, dizziness; followed by coma. Dangerously high concentrations could cause death from explosion or from breathing.

EMERGENCY AND FIRST AID PROCEDURES

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Call a physician. In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Wash contaminated clothing before reuse. If swallowed, CALL A PHYSICIAN IMMEDIATELY. DO NOT induce vomiting

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition (flames, electrical, static or frictional sparks, hot surfaces, etc.). Avoid breathing of vapors. Ventilate area. Contain and scoop up spill with non-sparking tools, rags, etc. Use inert absorbent materials on small spills or on residual of large spills.

WASTE DISPOSAL METHOD

Dispose of in accordance with local applicable regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Organic vapor cannister where oxygen content is adequate and vapor concentration is less than 2% or use air supplied face masks,

VENTILATION	LOCAL EXHAUST	X	SPECIAL
	MECHANICAL (General)	X	OTHER
PROTECTIVE GLOVES Neoprene Rubber Gloves		EYE PROTECTION Goggles	
OTHER PROTECTIVE EQUIPMENT			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep containers closed and upright to prevent leakage. Avoid flames, welding, smoking, sparks, open lights, etc. Avoid breathing of vapor or spray mist. Avoid eye and skin contact.

OTHER PRECAUTIONS

Maintain good personal hygiene. Do not use in confined areas, tank or pit without adequate ventilation.